

Fig. 1A

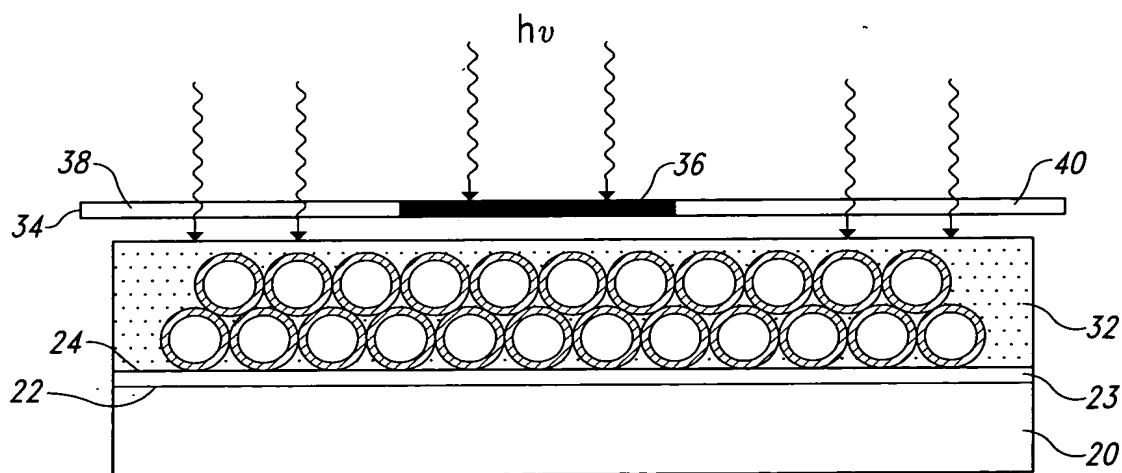


Fig. 1B

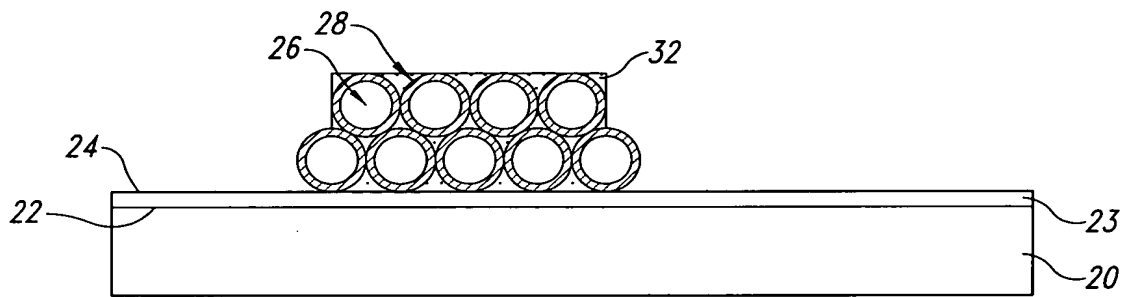


Fig. 1C

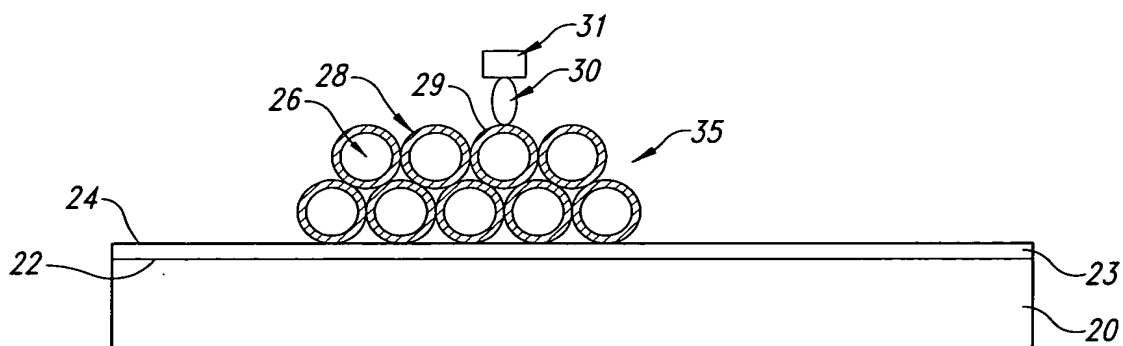


Fig. 1D

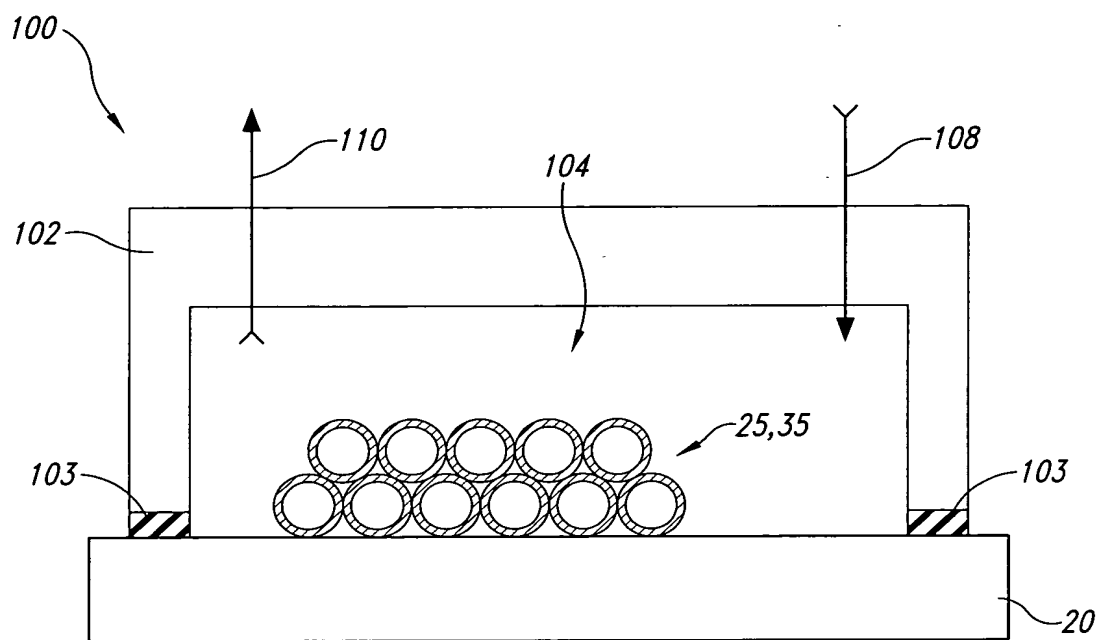


Fig. 1E

000006 15KV X1.100 14mm

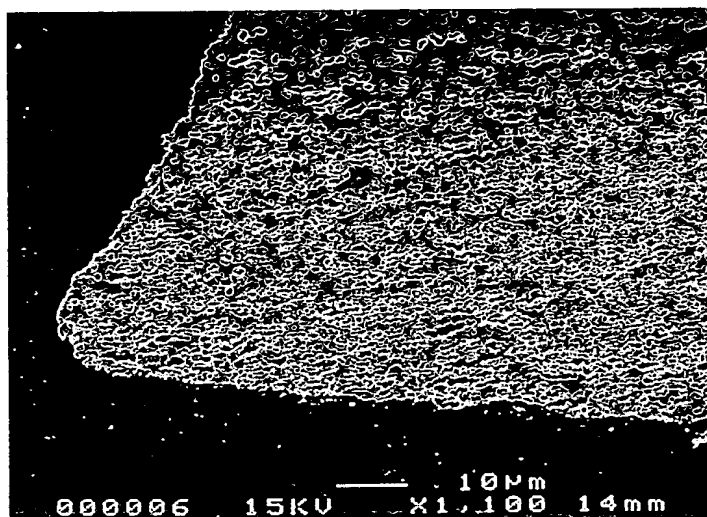


Fig. 2

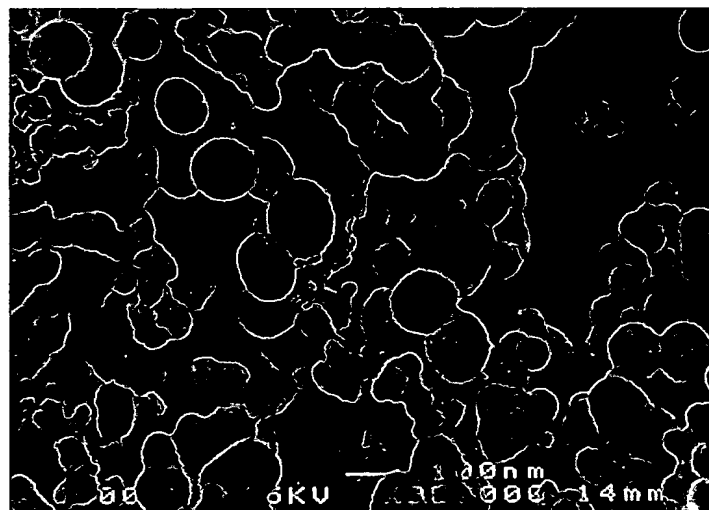


Fig. 3

Objective Magnification	No Coating (prior art)
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2x



Fig. 4A

Objective Magnification	Patterned Porous Coating (present invention)
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2x

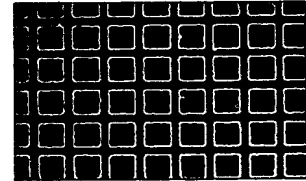


Fig. 4B

Objective Magnification	No Coating (prior art)
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10x



Fig. 4C

Objective Magnification	Patterned Porous Coating (present invention)
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10x



Fig. 4D

Objective Magnification	No Coating (prior art)
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20x

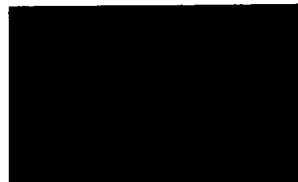


Fig. 4E

Objective Magnification	Patterned Porous Coating (present invention)
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20x



Fig. 4F

Receptor Fluorescence Image

None



Fig. 5A

Receptor

Surface Plot

None

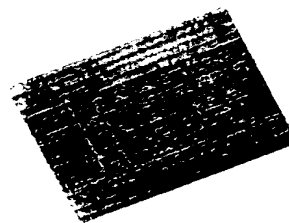


Fig. 5B

Receptor Fluorescence Image

FTA

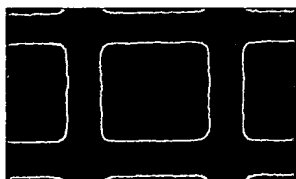


Fig. 5C

Receptor

Surface Plot

FTA

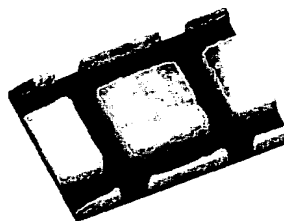


Fig. 5D

Receptor Fluorescence Image

FAA



Fig. 5E

Receptor

Surface Plot

FAA

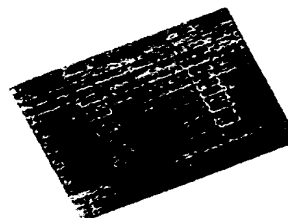


Fig. 5F

PNA array contacted
by FAA receptor

Receptor Sequence 5' – GCGAAGGC – F

Array schematic

AT	GT	CT	TT
AC	GC	CC	TC
AG	GG	CG	TG
AA	GA	CA	TA

Fig. 6A

PNA array contacted
by FTA receptor

Receptor Sequence 5' – GCGTAAGGC – F

Array schematic

AT	GT	CT	TT
AC	GC	CC	TC
AG	GG	CG	TG
AA	GA	CA	TA

Fig. 6B

PNA array contacted
by FAA receptor

Fluorescence Image



Fig. 6C

PNA array contacted
by FTA receptor

Fluorescence Image

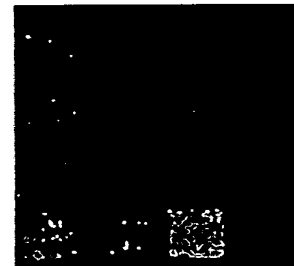


Fig. 6D

PNA array contacted
by FAA receptor

Surface Plot

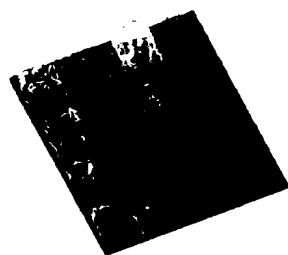


Fig. 6E

PNA array contacted
by FTA receptor

Surface Plot

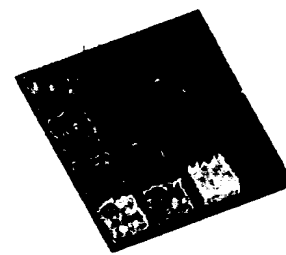


Fig. 6F

Array Schematic

$R_{1a}+R_{2a}$	$R_{1b}+R_{2a}$	$R_{1c}+R_{2a}$	
$R_{1a}+R_{2b}$	$R_{1b}+R_{2b}$	$R_{1c}+R_{2b}$	EDGE 2
$R_{1a}+R_{2c}$	$R_{1b}+R_{2c}$	$R_{1c}+R_{2c}$	
	EDGE 1		

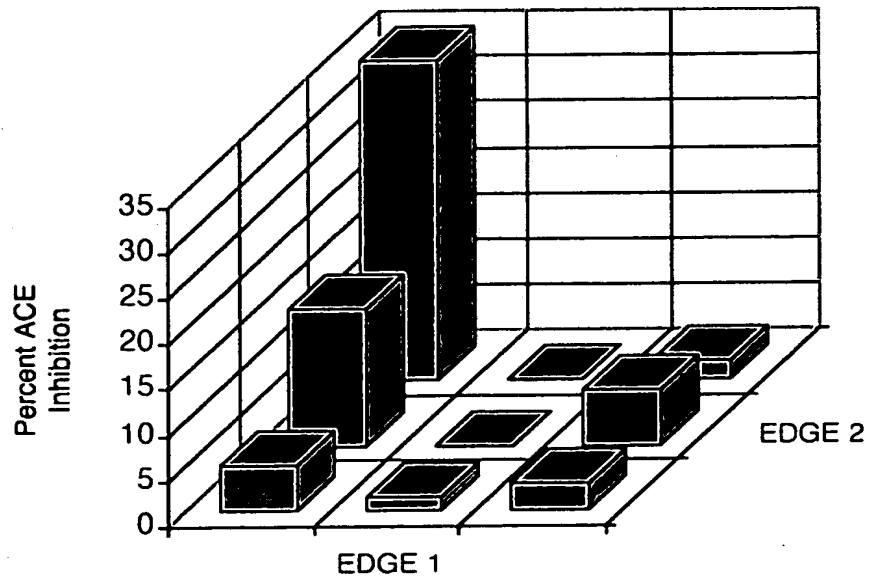


Fig. 7